Deficiency Code	(CURRENT) Database Description	(CURRENT) Deficiency Type	(CURRENT) IPS	*DRAFT Database Description*	(PROPOSED) Deficiency Type	(PROPOSED) IPS Points	Rule Reference
General							
G004	INSUFFICIENT SYSTEM OWNERSHIP INFORMATION	MIN	10	Designated Legal Ownership	Sig	25	R309-100-4(3)
R000	LACKS LEAD/COPPER SAMPLE SITE PLAN	MIN	10	Monitoring/sample site plan (ie arsenic, blending, LCR, DBP, etc)	Min	5	R309-210
				Systems must submit annual water use data to DWRi and verify water use data accuracy (points acrew each year of violation)	Min	15	
A025	ADMINISTRATIVE ISSUES - SEE NOTES FOR SPECIFIC DETAILS	MIN	25	Administrative Issues - see R309-400 for details	Min	15	R309-400-11
A050	ADMINISTRATIVE ISSUES - SEE NOTES FOR SPECIFIC DETAILS	SIG	50	Administrative Issues - see R309-400 for details	Sig	25	R309-400-11
A075	ADMINISTRATIVE ISSUES - SEE NOTES FOR SPECIFIC DETAILS	SIG	75	Administrative Issues - see R309-400 for details	Sig	50	R309-400-11
A100	ADMINISTRATIVE ISSUES - SEE NOTES FOR SPECIFIC DETAILS	SIG	100	Administrative Issues - see R309-400 for details	Sig	100	R309-400-11
A150	ADMINISTRATIVE ISSUES - SEE NOTES FOR SPECIFIC DETAILS	SIG	200	Administrative Issues - see R309-400 for details	Sig	200	R309-400-11
Cross Connection Control, Operator Certification, Emergency Response							
M020	UNPROTECTED CROSS CONN PRESENT IN DIST SYSTEM	SIG	50	Cross connections absent in the water system	Sig	50	R309-105-12(1)
M003	CCC-LACKS LOCAL AUTHORITY	MIN	10	Water System has a cross connection control program that includes a legally adopted and functional authority statement	Min	5	R309-105-12(2)
M004	CCC-NO ANNUAL PUBLIC EDUCATION OR AWARENESS	MIN	10	Water System has a cross connection control program that includes annual public education or awareness material	Min	5	R309-105-12(2)
M005	CCC-LACKS OPERATOR TRAINING	MIN	10	Water System has a cross connection control program that includes an operator with adequate training in the area of cross connection control or backflow prevention	Min	5	R309-105-12(2)
M006	CCC-LACKS WRITTEN RECORDS	MIN	10	Water System has a cross connection control program that include written records of cross connection control activities, such as, backflow assembly inventory and assembly testing	Min	5	R309-105-12(2)

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M007	CCC-LACKS ON-GOING ENFORCEMENT PLAN	MIN	10	Water System has a cross connection control program that includes documentation of on-going enforcement activities	Min	5	R309-105-12(2)
M001	CURRENT EMERGENCY RESPONSE PROGRAM	REC	-10				
M001	CURRENT EMERGENCY RESPONSE PROGRAM	REC	-10				
C001	NO CERTIFIED OPERATOR WHEN REQUIRED FOR SYSTEM	SIG	30	Operator certified at the level required for the system and avaialbe within one hour travel time	Sig	50	
C002	OPERATOR NOT AVAILABLE WITHIN 1 HOUR TRAVEL TIME	MIN	20				
C004	OPERATOR CERTIFIED AT A HIGHER LEVEL THAN REQUIRED	REC	-20				
M002	CURRENT FINANCIAL CAPACITY PLAN IN PLACE	REC	-10				
Plan Review							
G001	WATER SYSTEM FACILITY LACKS PLAN APPROVAL	SIG	50	Water System has received Plan Approval and/or Operating Permit for all active drinking water facilities as defined in R309-500-5(1)	Sig	50	R309-100-5(1&2), R309-105-6(1)(a), R309-500-6, R309-500-9, R309-550-9(3)
S001	SOURCE LACKS PLAN APPROVAL	SIG	200	All Active Water Sources (Springs and Wells) have received Plan Approval and/or Operating Permit	Sig	200	R309-515-6(1)(5) & R309-515-7(7)
M025	INTERCONNECTION LACKS DDW APPROVAL	SIG	200	If the system purchases water, the interconnection has been approved by the Division	Sig	50	R309-550-9(3)
Minimum Sizing Requirements							
V030	SYSTEM LACKS 10% OF REQUIRED STORAGE CAPACITY	MIN	10	Storage tank size meets the minimum storage volumes per R309-510; > 80% (not considering fire flow demand)	Min	15	R309-510-8
V031	SYSTEM LACKS 20% OF REQUIRED STORAGE CAPACITY	SIG	20				
V032	SYSTEM LACKS 30% OF REQUIRED STORAGE CAPACITY	SIG	30	Storage tank size meets the minimum storage volumes per R309-510; < or = 80% (not considering fire flow demand)	Sig	50	
V033	SYSTEM LACKS 40% OF REQUIRED STORAGE CAPACITY	SIG	40				

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VF30	SYSTEM LACKS 10% OF REQUIRED STORAGE FOR FIRE SUPPRESSION	MIN	10	Storage tank size meets the minimum storage volumes per R309-510 considering fire flow demand	Min	15	R309-510-8
VF31	SYSTEM LACKS 20% OF REQUIRED STORAGE FOR FIRE SUPPRESSION	MIN	20				
VF32	SYSTEM LACKS 30% OF REQUIRED STORAGE FOR FIRE SUPPRESSION	MIN	30				
VF33	SYSTEM LACKS 40% OF REQUIRED STORAGE FOR FIRE SUPPRESSION	MIN	40				
VF34	SYSTEM LACKS >40% OF REQUIRED STORAGE FOR FIRE SUPPRESSION	MIN	50				
S090	SYSTEM LACKS 10% OF REQUIRED SOURCE CAPACITY	MIN	10	Source Capacity meets the minimum source flows per R309-510; > 80%	Min	15	R309-510-7
S091	SYSTEM LACKS 20% OF REQUIRED SOURCE CAPACITY	SIG	20				
S092	SYSTEM LACKS 30% OF REQUIRED SOURCE CAPACITY	SIG	30	Source Capacity meets the minimum source flows per R309-510; < or = 80%	Sig	50	
S093	SYSTEM LACKS 40% OF REQUIRED SOURCE CAPACITY	SIG	40				
S094	SYSTEM LACKS >40% OF REQUIRED SOURCE CAPACITY	SIG	50				
Source Development							
TGR7	SYSTEM LACKS AT LEASR 2 SOURCES FOR 100 CONNECTIONS	NON	0	Community water system serving more than 100 connections has a minimum of two sources, except where served by a surface water treatment plant.	Sig	50	R309-515-4(3)
INFO		NON		Community water system (without naturally flowing water sources) have at least one redundant power supply	Sig	25	R309-515-6(2)(a)
S003	ELEVATION OF WELL CASING INADEQUATE	SIG	20	Well or pitless well and adapter casing terminates at least 18 inches above the final ground surface and at least 12 inches above the pump house floor.	Sig	25	R309-515-6(6)(b)(vi) & R309-515-6(12)(c)(ii)
S013	WELL LACKS PROPER SANITARY SEAL	SIG	50	Well is sealed with grout to a depth of at least 100 feet below the ground surface. If well is equipped with a pitless adapter or unit, the well seal is installed to a minimum depth of 110 feet to take in to account the top 10 feet of compromised seal interval.	Sig	50	R309-515-6(6)(i)

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				Well is capped per R655-4-14-1 until permanent equipment is installed	Sig	50	R309-515-6(8)(a)
S005	PITLESS ADPTR NOT WATER TIGHT LACKS PROPER SEALING	SIG	50	The pitless well and adaptor is protected against vandalism or sabotage and appears to be watertight including the cap, cover, and other attachments	Sig	50	R309-515-6(12)(c)
S006	WELL CASING VENT NOT PROPERLY SCREENED	SIG	2	If well casing is vented, the vent and/or air release/air vacuum valve exhaust/relief piping terminates in a down-turned position with a #14 mesh corrosion resistant screen and terminating at least 6 inches above the well floor	Sig	25	R309-515-6(12)(d)(v)
S007	WELL CASING VENT IS NOT DOWN-TURNED	MIN	2				
S008	WELL CASING VENT DOES NOT HAVE AN PROPER AIR GAP	MIN	2				
S028	A/V RELEASE VALVE IS NOT DOWN-TURNED	MIN	2				
S029	A/V RELEASE VALVE LACKS PROPER SCREEN	SIG	2				
S030	A/V RELEASE VALVE LACKS PROPER AIRGAP	MIN	2				
SL01	NO MEANS TO RELEASE TRAPPED AIR FROM SOURCE PUMP	MIN	5	Pumping directly to distribution: There is an air release valve or pump to waste line prior to being pumped to distribution	Min	5	R309-515-6(12)(d)(v)
S009	PUMP TO WASTE LINE LACKS PROPER AIR GAP	SIG	20	If there is a pump to waste line, it discharges with a minimum of 12 inches of clearance to the flood rim with a #4 mesh corrosion resistant screen at the discharge end	Sig	25	R309-515-6(12)(d)(ix)
S010	PUMP TO WASTE LINE LACKS #4 MESH NON-CORROD SCREEN	SIG	5	If there is a pump to waste line, the discharge end is downturned	Min	5	R309-515-6(12)(d)(ix)
S011		SIG	2				
S015	WELL LACKS A MEANS TO MEASURE DRAWDOWN	MIN	2	There are provisions to permit periodic measurement of water levels in a completed well and these provisions are installed to prevent entrance of foreign materials	Min	5	R309-515-6(12)(d)(e) & R309-515-6(12)(c)(vi)
S002	WELL HOUSE NOT SECURE	SIG	20				
S020	WELL HOUSE STATION NOT PROTECTED FROM FLOODING	MIN	5	Well head or well house is protected from flooding	Min	5	R309-515-6(13)(a-d)
S021	UNPROTECTED CROSS CONN PRESENT IN WELL HOUSE	SIG	20	Cross connections absent in the water system	Sig	50	R309-105-12(1)
TGR5	TOXIC / HAZARDOUS MATERIALS STORED IN PUMPING STATION	NON	0				

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S023	NO SMOOTH NOSED SAMPLING TAP ON DISCHARGE PIPING	MIN	1	Well discharge piping is equipped with a smooth nosed sampling tap as the first thing installed after the well head	Min	5	R309-515-6(12)(d)(iv)
S024	NO CHECK VALVE ON DISCHARGE PIPING	MIN	1	Well discharge piping is equipped with a check valve after the sampling tap but before the shut off valve	Min	5	R309-515-6(12)(d)(iv)
S025	NO PRESSURE GAUGE ON DISCHARGE PIPING	MIN	1	Well discharge piping is equipped with a pressure gauge after the sampling tap but before the shut off valve	Min	5	R309-515-6(12)(d)(iv)
S026	NO FLOW MEASURING DEVICE ON DISCHARGE PIPING	MIN	1	Well discharge piping is equipped with a means to measure flow after the sampling tap but before the shut off valve.	Min	5	R309-515-6(12)(d)(iv)
S027	NO SHUT OFF VALVE ON DISCHARGE PIPING	MIN	1	Well discharge piping is equipped with a shut off valve installed the furthest from the well head	Min	5	R309-515-6(12)(d)(iv)
S031	IMPROPER LUBRICATION OIL	SIG	25	Pump lubricants are ANSI/NSF 60 certified	Sig	25	R309-105-10(7)
				For surface water or UDI source, surface water treatment of spring water is provided.	Sig	200	R309-515-5(1) & 7(1)
SS19	LACK OF IMPERVIOUS SOIL COVER OR ACCEPTABLE LINER	MIN	10	Spring liner intact	Sig	50	R309-515-7(7)(a) & (b)(vi)
				Either a minimum of 10 feet of impervious soil cover or 2 feet of impervious soil cover over a liner, placed at least 15 feet laterally in all directions from spring collection devices	Sig	50	R309-515-7(7)(a) & (b)(vi)
L014	NO SPRING COLLECITON BOX PRESENT	REC	0	At least one collection box provided for each collection area	Min	5	R309-515-7(7)(c)
SS20	UNSEALED OPENINGS IN SPRING COLLECTION BOX	SIG	50	All penetrations and openings sealed to prevent inflow of contaminants	Sig	50	R309-545-14 (1)
SS13	SPRING BOX IS NOT SECURE	SIG	20	Access openings for junction and collection boxes secured with a shoebox type lid with at least a 2- inch overhang, gasket, and lock	Sig	25	R309-515-7(7)(d)
SS09	SPRING BOX LACKS SHOE BOX LID	MIN	5				
SS10	SPRING BOX LACKS A GASKET ON LID	SIG	5				
SS012	SPRING BOX LACKS RAISED ACCESS ENTRY	MIN	5	Access openings for junction and collection boxes with a raised access at least 4 inches above the top of a raised box or 18 inches above earthen cover	Min	15	R309-515-7(7)(d)
SS011	SPRING BOX LACKS AN ADEQUATE AIR VENT	MIN	5	Spring box has air vent	Min	5	R309-515-7(7)(d)
SSL2	VENT NOT PRESENT BUT RECOMMENDED	REC	0				

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SS16	SPRING COLLECTION BOX VENT NOT DOWN-TURNED	MIN	2	Vents for junction and collection boxes are downturned, screened with a #14 mesh screen and sealed	Sig	25	R309-515-7(7)(d)
SS17	SPRING COLLECTION BOX VENT NOT PROPERLY SCREENED	SIG	2				
SS18	SPRING COLLECTION BOX VENT NOT AIR GAPPED	MIN	2	Vents for junction and collection boxes have at least 24 inches of clearance above earthen cover	Min	15	R309-515-7(7)(d)
				Overflow present on junction and collection boxes	Sig	50	R309-515-7(7)(d)
SS14	SPRING BOX DRAIN/OVERFLOW LACKS PROPER FREE FALL	SIG	5	Overflow and drain for junction and collection boxes discharge with at least 12 inches of clearance	Sig	25	R309-515-7(7)(d)
SS21	DRAIN LINE DOES NOT HAVE ADEQUATE AIR GAP NOT COVERED IN IPS	REC	0				
SS04	SPRING BOX LACKS PROPER OVERFLOW/DRAIN LACKS PROPER SCREEN	SIG	5	Overflow and drain for junction and collection boxes screened with a #4 mesh screen	Sig	25	R309-515-7(7)(d)
SS02	SPRING COLLECTION AREA NOT FENCED	Min	10	Stock tight fencing at least 50 feet from collection devices on land equal to or higher in elevation and 15 feet on land lower in elevation from collection devices	Sig	25	R309-515-7(7)(e)
SS03	SPRING COLLECTION AREA LACKS A DIVERSION CHANNEL	MIN	5	Berm or channel immediately inside fenced collection area to divert all surface water runoff	Min	15	R309-515-7(7)(g)
SS01	SPRING LACKS A PERMANENT FLOW MEASURING DEVICE	MIN	5	Permanent flow-measuring device, properly housed and protected	Min	5	R309-515-7(7)(h)
SS06	MAJOR PONDING ON SPRING COLLECTION AREA	SIG	20	Spring developed to minimize ponding	Sig	50	R309-515-7(7)(i)
SS07	DEEP ROOTED VEGETATION IN SPRING COLLECTION AREA	MIN	10	Deep-rooted vegetation removed within fenced spring collection area	Sig	25	R309-515-7(7)(f)
SS08	ROOTS IN COLLECTION PIPES	MIN	10				
				Herbicides, pesticides and algicides may not be applied to spring collection area without DDW approval and ANSI/NSF 60 certification	Sig	50	R309-515-8 (3) & (1)(b)

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Disinfection							
TD41	CLEANING MATERIALS DO NOT MEET ANSI/NSF 60 STANDARDS	SIG	25	All chemicals added to drinking water, including chlorine, chloramines, and chemicals used to generate hypochlorite solutions and chlorine dioxide, as well as chemicals used to clean components that will contact drinking water are NSF Standard 60 certified	Sig	25	R309-520-6(2), R309-520-8(3)(j), R309-520-9(4)(h)
TD90	CHLORINE CHEMICAL DOES NOT MEET ANSI/NSF 60 STANDARD	SIG	25				
TD47	QUENCHING CHEMICALS DO NOT MEET ANSI/NSF 60 STANDARDS	SIG	25				
TD78	INSUFFICENT SAMPLING FOR CHLORINE RESIDUAL TESTING	MIN	2	Chlorine residual test equipment available capable of measuring residuals to the nearest 0.1 mg/l in the range below 0.5 mg/l, to the nearest 0.3 mg/l between 0.5 mg/l and 1.0 mg/l and to the nearest 0.5 mg/l above 1.0 mg/l	Sig	50	R309-520-7(1)(j)
TD75	CL2 SYSTEM LACKS SPARE PARTS FOR HYPOCHLORINATOR	MIN	2	Required Disinfection: There is a means to continuously disinfect including having spare parts and redundancy available (for maintenance and emergency)	Sig	25	R309-520-7(1)(k) & R309-520-6(1)
TD22	CL2 INSUFFICIENT BACK UP EQUIPMENT	MIN	10				
TD42	UNABLE TO ISOLATE UV DININFECTION SYSTEM FOR MANTENANCE	MIN	2				R309-520-8(3)(g)
TD43	NO BACKUP POWER SOURCE	MIN	2				R309-520-8(3)(l)
TD44	NO REDUNDANT PRIMARY DISINFECTION MECHANISM	MIN	5				R309-520-8(3)(m)
TD25	CL2 DISINFECTION PROCESS NOT CONTINUOUS	SIG	2	Required Disinfection: Water system properly continuously disinfects without "batch" disinfection	Sig	50	R309-520-6(1)
TD08	CL2 BUILDING IMPROPER HEAT LIGHT OR VENTILATION	MIN	2	Chlorination building is heated, lighted, and vented to assure proper operation and safety	Min	15	R309-520-7(1)(l)
TD69	CHLORINATOR BUILDING LACKS ADEQUATE VENTILATION	REC	0				
				Chlorination system has a means to measure the flow rate of treated water as a basis for dosing	Min	15	R309-520-7(1)(i)
TD01	CL2 - NO AUTOMATIC CL CYLINDER SWITCH OVER	MIN	2	Gas Chlorinators: Automatic switch over of gas chlorine cylinders is provided to assure continuous disinfection	Min	5	R309-520-7(2)(a) & R309-520-6(1)

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TD09	CL2 IMPROPER LOCATION FOR VENTILATING FAN SUCTION	MIN	5	Gas Chlorinators: Exhaust fan(s) take suction inside the chlorine room near the floor, as far as practical from the door and air inlet, and discharge air outside of the building through wall lourvers near the ceiling, away from air inlets	Sig	25	R309-520-7(2)(d)(iii) & R309-520-7(2)(d)(iv)
TD10	CL2 AIR INLETS NOT LOCATED NEAR CEILING W/LOUVERS	MIN	2				
TD12	CL2 SWITCHED FOR FAN / LIGHTS NOT OUTSIDE CL2 ROOM	MIN	2	Gas Chlorinators: Have separate switches for the chlorine room fans and lights, located near the entrance to the room and protected from vandalism	Min	15	R309-520-7(2)(d)(v)
TD13	CL2 FEED VENT IMPROPERLY VENTED OR SCREENED	MIN	2	Gas Chlorinators: Area vent line discharges outside, above grade, at a point least susceptible to vandalism, and has the end covered with a #14 mesh non-corrodible screen	Sig	25	R309-520-7(2)(e)
TD17	CL2 CYLINDERS EXPOSED TO DIRECT SUN OR EXCESS HEAT	MIN	2	Gas Chlorinators: Cylinders are not stored in direct sunlight or exposed to excessive heat	Min	15	R309-520-7(2)(f)(ii)
				Gas Chlorinators: The chlorinatin equipment and storage is secure	Sig	25	R309-520-7(2)(f)
TD15	CHLORINE CYLINDERS IMPROPERLY RESTRAINED	MIN	2	Gas Chlorinators: Chlorine cylinders are restrained in position to prevent upset	Min	15	R309-520-7(2)(h)
TD02	LACKS EQUIPMENT TO MEASURE CHLORINE FEED RATE	MIN	2	Gas Chlorinators: Corrosion resistant scales are provided and placed in a location remote from moisture. Scales are accurate to indicate loss of weight to the nearest one pound for 150 pound cylinders and nearest 10 pounds for one ton cylinders	Min	15	309-520-7(2)(i)
TD06	CL2NO ACCESS TO SELF CONTAINED BREATHING APPARATUS	MIN	5	Gas Chlorinators: Required respiratory equipment available - One ton cylinders NIOSH respiratory protection equipment required - 150 pound cylinders respiratory requipment required (NIOSH respiratory equipment recommended)	Sig	25	R309-520-7(2)(k)
TD14	CL2 LACKS A MEANS OF LEAK DETECTION 150 LB	MIN	2	Gas Chlorinators: 150 pound cylinder, leak detection, 56% ammonia solution available	Min	15	R309-520-7(2)(l)(i)
TD04	CL2 LACKS A 150 LB CHLORINE CYLINDER REPAIR KIT	REC	0				
TD05	CL2 LACKS A 1 TON CHLORINE CYLINDER REPAIR KIT	SIG	15	Gas Chlorinators: One ton cylinder has leak repair kit available (Chlorine Institute approved, Type B)	Sig	25	R309-520-7(2)(l)(ii)
TD19	CL2 LACKS A MEANS OF LEAK DETECTION 1 TON	MIN	15	Gas Chlorinators: One ton cylinders have continuous chlorine leak detection equipment with audible alarm and warning light to ensure operator safety	Sig	25	R309-520-7(2)(l)(iii & Iv)
				Gas Chlorinators: One ton cylinder operation areas are equipped with a gas scrubber	Sig	25	R309-520-7(2)(b)

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TD66	FACILITY DOES NOT PROVIDE SOME METHOD OF EMERGENCY EYEWASH	REC	0	Hypochlorite System: Emergency eyewash and safety showers are provided for solutions containing concentrations of 5% or great available chlorine by volume and are handled in containers greater than 55 gallons; unless at a remote location where alternative emergency eyewash is provided	Sig	25	R309-520-7(3)(a)(i)
TD67	HYPOCHLORITE NOT PROTECTED FROM EXCESSIVE HEAT OR DIRECT SUN LIGHT	REC	0	Hypochlorite System: Storage and injection areas are protected from excessive heat or direct sunlight	Min	5	R309-520-7(3)(a)(ii)
TD68	NO RECORDS KEPT TO MINIMIZE USE OF DECAYED HYPOCHLORITE SOLUTION	REC	0	Hypochlorite System: Records are kept of on site delivery to avoid the injection of significantly decayed hypochlorite solutions	Min	5	R309-520-7(3)(b)
				Hypochlorite System: Has a liquid level indicator	Min	5	R309-525-11(6)(a)(iv)(A)
				Hypochlorite System: Has adequate spill containment	Min	5	R309-525-11(6)(a)(iv)(B)
				Hypochlorite System: Tanks are be properly labeled to designate the chemical contained	Min	5	R309-525-11(8)(c)(vii)
TD70	MAKE UP WATER NOT DRINKING WATER QUALITY	REC	0	Hypochlorite On-Site Generation System: Make-up water used in on-site generation is of drinking water quality	Sig	50	R309-520-7(3)(c)(iii)
TD71	HYDROGEN GAS FROM ELECTOLYTIC CELL NOT PROPERLY VENTED	REC	0	Hypochlorite On-Site Generation System: hydrogen gas generated in the electrolytic cell is vented upward to the outside of the building in a dedicated, unobstructed line	Sig	50	R309-520-7(3)(c)(iv)
TD72	HYPOCHLORINE TABLETS NOT STORED IN COOL, DRY, VENTED AREA	REC	0	Hypochlorite Tablet System: Tablets are stored in a cool, dry, well-ventilated area and are not near combustible materials or acids	Min	5	R309-520-7(3)(d)(iii)
TD73	HYPOCHLORITE TABLETS STORED WITH COMBUSTIBLE MAT. OR ACIDS	REC	0				
TD39	LACKS ADEQUATE OPERATING PROCEDURES FOR UV	MIN	2	UV Process: Incident plan is developed to address lamp breakage and release of mercury, response to alarms, power supply interruptions, activation of standby equipment, failure of system, etc.	Min	15	R309-520-8(4)(b)
TD40	UV INTENSITY SENSOR NOT CORRECTLY CALIBRATED	MIN	2				
TD46	INADEQUATE OZONE RESIDUAL ANALYZERS	MIN	2	Ozone System: Ozone gas analyzer, flow meter, and temperature measurements are provided on the gaseous ozone feed line going to the injection point	Min	15	R309-520-9(7)(c)

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TD48	OZONE OFF-GAS BLOWERS NOT PROPERLY FUNCTIONING	MIN	2	Ozone System: An off-gas treatment system is provided and working properly, including the blowers to draw off-gas from the contactor into the destruction units.	Min	15	R309-520-9(5)(a & b)
TD49	OZONE OFF-GAS DISTRUCTION UNITS NOT PROVIDED / PROPERLY FUNCTIONING PROPERLY	MIN	2				
TD50	OZONE OFF-GAS DESTRUCTION NOT LESS THAN 0.1 PPM	MIN	2	Ozone System: The maximum ozone gas discharge from the destruction unit is 0.1 ppm by volume	Sig	25	R309-520-9(5)(d)
TD31	EMERGENCY EYEWASH AND SHOWER NOT AVAILABLE	MIN	2	Chlorine Dioxide System: Emergency shower and eyewash are present and located outside but close to the operation area	Sig	25	R309-520-10(3)(b)(viii)
TD32	NO EMERGENCY SHUT OFF FOR CHLORINE DIOXIDE GENERATOR	MIN	2	Chlorine Dioxide System: Emergency shutoff control is present and located outside the operations area	Sig	25	R309-520-10(3)(b)(ix)
TD34	NO CHLORINE DIOXIDE SENSOR ALARM AVAILABLE	MIN	2	Chlorine Dioxide System: There is an ambient air chlorine dioxide sensor alarm or warning light detectable inside and outside of the operations area	Sig	25	R309-520-10(3)(b)(v)
TD35	NO WASH DOWN WATER AVAILABLE	MIN	2	Chlorine Dioxide System: Wash-down water is available within the operations area	Sig	25	R309-520-10(3)(b)(xvi)
TD28	COMBUSTIBLE OR REACTIVE MATERIALS IMPROPERLY STORED	MIN	2	Chlorine Dioxide System: Combustible or reactive materials (acids, reduced metals, or organic material) are not stored or handled in the operations area	Sig	25	R309-520-10(5)(a)
TD30	PERSONAL PROTECTIVE EQUIPMENT NOT AVAILABLE	MIN	5	Chlorine Dioxide System: Personal protective equipment and first aid kits are stored near but outside the operations area	Min	5	R309-520-10(5)(c)
TD36	OPERATING AREA TEMPRATURES NOT BETWEEN 60 AND 100 DEGREES F	MIN	2	Chlorine Dioxide System: Operations area is maintained between 60 and 100 degrees F	Min	5	R309-520-10(5)(d)
TD37	O/M MANUAL DOES NOT INCLUDE SAFETY AND EMERGENCY RESPONSE PROCEDURES	MIN	2	Chlorine Dioxide System: Operating and Maintenance manual includes a safety and emergency response procedures which employees have ongoing training on	Min	5	R309-520-10(5)(f)
TD38	NO SAFETY AND EMERGENCY TRAINING	REC	0				

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Surface Water Treatment and Miscellaneous Treatment Methods							
	INADEQUATE PROCESS CONTROL TESTING	MIN	30	General Treatment: General Information (objective, seasonal, capacity, overall process flow, recycling waste stream)?	Non	0	R309-525
TC19	ACTIVATED CARBON - UNTRAINED OPERATORS ON PROCESS	REC	0				
TD99	TREATMENT PLANT IS NOT SECURE	SIG	20				
				General Treatment: For primary treatment, the plant has standby power available to permit operation of essential functions during power outages.	Sig	25	R309-525-7(5), R309-525-11(7)(b)(iii)
				General Treatment: The plant has backup equipment or necessary spare part for critical items, including for feeders	Sig	25	R309-525-7(6), R309-525-11(7)(b)(i)
TC15	ACTIVATED CARBON - FEED LINES NOT LABELED OR CODED	MIN	2	General Treatment: Water treatment plant piping is color coded for identification with direction of flow indicated on the pipes.	Min	5	R309-525-8
TD79	NO MEANS OF MEASURING WATER TREATED WITH CHLORINE	MIN	10	General Treatment: There is a means to measure volume of water treated	Min	5	R309-525-11(7)(d)(iv)
				General Treatment: Sampling taps are provided so that water samples can be obtained from appropriate locations in each unit operation of treatment	Min	15	R309-525-18
				General Treatment - Conventional and Direct Filtration Safety: At least one pair of rubber gloves, a dust respirator or a type certified by NIOSH for toxic dusts, an apron or other protective clothing and goggles or face mask are provided for each operator. A deluge shower and/or eye washing device is installed where strong acids and alkalis are used or stored	Sig	25	R309-525-11(10)(b)
TG53	NO BACKFLOW PROTECTION ON SERVICE LINE TO TANKS	SIG	10	General Treatment - Cross Connection: Controls are in place to prevent backflow or back-siphonage of chemical solutions to finished water systems	Sig	50	R309-525-11(2)(c), R309-525-11(9)(b)(ii)
TX07	NO BACKFLOW PROTECTION ON MAKE-UP WATER INLET	MIN	2	Treatment - Chemical Storage: Solution tank overflows have a freefalling discharge and are located where noticeable.	Sig	50	R309-525-11(8)(b)(v)
TX08	OVERFLW PIPE NOT TURNED DOWN/SCREENED W/AIR GAP	SIG	10				

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TG64	NO CROSS-CONNECTION CONTROL ON IN-PLANT WATER SUPPLY	SIG	10	General Treatment - Cross Connection: Cross connection control is provided so that there is no direct connections between any sewer and a drain or overflow from a feeder, solution chamber or tank by providing that all pipes terMinate at least 6-inches or two pipe diameters, whichever is greater, above the overflow rim of the	Sig	50	R309-525-11(9)(b)(iii)
TG06	SOLUTION TANK LACKS BACKFLOW PROTECTION	SIG	10				
TD52	CL2 UNPROTECTED CROSS CONN PRESENT IN FEED LINE	SIG	10	General Treatment - Cross Connection: The treated water supply is prevented from contaMination by make-up water of lesser quality	Sig	200	R309-520-7(1)(h), R309-525-11(9)(a)(iii)
				General Treatment - Cross Connection: Pre and Post-Chlorination systems are independent to prevent possible siphoning of partially treated water into the clear well. The water supply to each system is have a separate shut-off valve with no master shut off valve.	Sig	50	R309-525-11(9)(b)(iv)
				Treatment-Presedimentation: Presedimenation basin are equipped for sludge removal	Min	15	R309-525-10(1)
INFO		NON	0	General Treatment- Pre Treatment: What type of pretreatment is used?	Non	0	
TC05	ACTIVATED CARBON - PAC IS NOT ADD AS EARLY AS POSS	REC	0	General Treatment- Activated Carbon: General information; manual/automatically controlled, where is it added in the process, storage area clean and dry?	Non	0	R309-525-15(4)(d)
TC07	ACTIVATED CARBON - PAC IS NOT ADDED BEFORE OXIDANT	REC	0				
TC08	ACTIVATED CARBON - PAC ADD IS NOT AT MULTIPLE PTS	REC	0				
TC10	ACTIVATED CARBON - PAC NOT STORED SEPARTE	REC	0				
TC17	ACTIVATED CARBON - CHEM STORAGE NOT CLEAN AND DRY	REC	0				
L017		NON	0	Treatment-Chemical Addition: General Information; what chemicals are used?	Non	0	R309-525-11
TG63	IMPROPER DRY CHEMICAL FEEDER	MIN	20	Treatment- Chemical Addition: General Inforamtion; how is dosing determined, implemented, quanities of chemicals used determined, and feeders verified for accuracy?	Non	0	R309-525-11(6)(b)(iii), R309-525-11(7)(d)(iv)
TX09	NO MEANS TO METER DILUTION OF BRINE	MIN	2				
TG21	CHEMICAL FEEDERS IMPROPERLY CALIBRATED	MIN	2				

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T080	NOT USING ANSI/NSF 60 APPROVED MATERIALS	SIG	25	Treatment- Chemical Addition: All Chemicals, additives, and adhesives are ANSI/NSF 60 certified	Sig	25	R309-525-11(5), R309-525-25(1), R309-535-11(5)(d)
TG27	CHEMICALS DO NOT COMPLY WITH ANSI/NSF STANDARD	SIG	25				
TX05	BRINE SALT NO APPROVED BY ANSI/NSF	SIG	25				
TQ10	SEQ - POLY SEQUEST CHEMICALS DOES NOT MEET ANSI/NSF STAND	SIG	25				
				Treatment - Chemical Addition: Chemical name, purity and concentration and Safety Data Sheets are available for all chemicals used at the plant	Min	5	R309-525-11(5)(a), R309-525-11(6)(b)(i)
TG19	INCOMPATIBLE CHEMICALS NOT STORED SEPARATELY	MIN	2	Treatment - Chemical Addition: Chemicals that are incompatible are not fed, stored or handled together	Sig	25	R309-525-11(7)(a)(iv)
				Treatment - Chemical Storage: Solution tanks (including day tanks) have a liquid level indicator or are scale mounted to meaningfully relate the total amount of chemical fed (or used) during a day.	Min	5	R309-525-11(6)(a)(iv)(A), R309-525-11(8)(b)(ii), R309-525-11(8)(c)(iv)
				Treatment - Chemical Storage: Solution tanks are equipped with an inverted "J" air vent	Min	5	R309-525-11(6)(a)(iv)(C)
TG59	INADEQUATE SPILL CONTAINMENT PROVISIONS	MIN	2	Treatment - Chemical Storage: Solution tanks have an overflow and a receiving basin or drain capable of receiving accidental spills or overflows	Min	5	R309-525-11(6)(a)(iv)(B). R309-525-11(8)(b)(viii)
				Treatment - Chemical Storage: Acid is kept in closed acid-resistant shipping containers or storage units.	Min	5	R309-525-11(6)(a)(v)
				Treatment - Chemical Storage: Dust Control and ventilation is adequate	Min	5	R309-525-11(6)(c)
TG60	ACID TANK VENTS NO SCREEN OR OUTSIDE BLDG	MIN	2	Treatment - Chemical Storage: Acid storage tanks are vented (independently) to the outside atmosphere, separate from vents in common with day tanks.	Min	5	R309-525-11(8)(b)(vi)
TG03	TANKS AND REFILL LINES LACK PROPER LABELING	MIN	2	Treatment - Chemical Storage: Storage tanks are properly labeled to deSignate the chemical contained.	Min	5	R309-525-11(8)(c)(vii)
				Treatment - Chemical Storage: Each solution tank is provided with a valved drain to protect against backflow.	Sig	50	R309-525-11(8)(b)(ix)
TD64	CL2 NO COVER ON STORAGE TANK	MIN	2	Treatment - Chemical Storage: Chemical solutions tank are kept covered including openings.	Min	5	R309-525-11(8)(b)(iii)
				Treatment - Flash Mixing: General Information; type of mixing used (mechanical, in-line, jet), mixing time (should be less than 30 sec), and location in plant?	Non	0	R309-525-12(1)

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INFO	PRIMARY COAGULANT NOT USED AT ALL TIMES	NON	0	Treatment - Coagulation: Describe plant coagulation process, what chemicals are used?	Non	0	R309-525-12
INFO	NO PLAN TO DETERMinE COAGULANT DOSAGE	NON	0				
T014	NO SOP FOR ADJUSTING FLOCCULATOR SPEED	REC	0	Treatment - Flocculation: General Information; what are the detention times, type of agitators, is there visible floc?	Non	0	R309-525-12(2)
T043	FILTER SEPTUM NOT PERIODICALLY INSPECTED	NON	0	Treatment - Filters: General Information; type, objective(s), media(s), media depth, run times, rate of filtration controls, turbidity goal, turbidity limit?	Non	0	R309-525-15
T044	FILTER SEPTUM NOT REGULARLY CLEANED	NON	0				
T021	INTRUMENTATION AND CONTROLS NOT OPERABLE	MIN	2				
				Treatment - Conventional/Direct Filtration General Filters: There are handrails or walls around filter areas adjacent to normal walkways.	Sig	25	R309-525-15(6)(n)
T074	NO FILTER TO WASTE LINE ON EACH FILTER	MIN	20	Treatment - Conventional/Direct Filtration General Filters: There is a filtration to waste line for each filter	Sig	25	R309-525-15(6)(p)
				Treatment - Surface Water General Filters: The filter is provided with an alarm should turbidity exceed it's NTU limit so that filter shutdown is initiated.	Sig	25	R309-525-15(4)(b)(vi), R309-525-15(4)(c)(vii)
				Treatment - General Filters: Sampling taps or means to obtain samples from influent and effluent are provided	Min	5	R309-525-15(10)(a)(i)
				Treatment - General Filters: Pressure gauges are provided to indicate head loss through filter system to establish pressure differential between upstream and downstream side of each filter	Min	15	R309-525-15(10)(a)(ii), R309-535-8(2)(b)(ii), R309-535-11(1)(c)(ii)(A)
				Treatment - General Filters: A meter indicating rate-of-flow for the filters is provided.	Min	5	R309-525-15(10)(a)(iii), R309-535-11(1)(c)(ii)(B)
L062		NON	0	Treatment - General Filter Backwash: General Information, describe the process. What triggers backwash (head, time, etc.), backwash process time, with or without air?	Non	0	R309-525-16(6)
T076	INSUFFICIENT STORAGE TANK VOLUME	MIN	20	Treatment - Conventional/Direct Filter General Filter Backwash - The backwash tank is capable of backwashing at least two filters consecutively	Min	15	R309-525-15(7)(a)(iv)
T075	BACKWASH TANK DOES NOT PROVIDE FINISHED DRINKING WATER	SIG	20	Treatment - General Filter Backwash - Only finished water is used in the backwash process	Sig	50	R309-525-15(7)(a)(ix)

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T077	BACKWASH TANK DOES NOT PERFORM IN CONJUNCTION WITH FILTER TO WASTE SYSTEM	REC	0				
				Treatment - Slow Sand Filters: At least three (3) filter units are provided	Min	15	R309-530-6(5)(a)
				Treatment - Membrane Filters: Describe Membrane process, what initiates Clean in Place (CIP), what chemicals are used, where is it discharged to	Non	0	R309-530-8
TD57	VENTILATION NOT SEPARATE FROM REST OF TREATMENT PLANT	REC	0	Treatment - Gas Chlorinator: Housed in a separate chlorine room, for chlorine cylinders and feed equipment. All openings between the chlorine room and the remainder of the plant/faciltiy are sealed	Sig	25	R309-520-7(2)(g)
TD18	CL2 ROOM NOT SEALED FROM REST OF FACILITY	MIN	2				
TD95	EXIT DOORS DO NOT SWING OUTWARD WITH PANIC BARS	MIN	2	Treatment - Gas Chlorinator: Outward-opening doors are present and are equipped with panic bars to allow rapid exit	Sig	25	R309-520-7(2)(g)(iii)
TD96	INADEQUATE FLOOR DRAINAGE	MIN	5	Treatment - Gas Chlorinator: Where floor drains are present, the drain line discharges outside the building and is not connected to other internal or external drain systems	Sig	25	R309-520-7(2)(g)(iv)
TD56	CLORINE ROOM LACKS SHATTER RESISTANT INSPECTION WINDOW(S)	REC	0	Treatment - Gas Chlorinator: Has shatter resistant inspection window(s) in an interior wall located so an operator may read the weighing scales without enter the chlorine room	Sig	25	R309-520-7(2)(g)(i)
TD07	CL2 GAS FED/STORAGE NOT SEPARATE FROM OTHER AREAS	MIN	2	Treatment - Gas Chlorinator: Chlorine feed lines do not carry pressurized chlorine gas beyond the chlorine room. Only vacuum lines are routed to other areas of the building and these lines are adequately sealed	Sig	25	R309-520-7(2)(g)(v)
				Treatment - Finished Water Storage: General Information. How is CT calculated and does it account for in-plant water, storage size.	Non	0	R309-525-16
				Treatment - Clear Well: The clear well has an overflow and vent and complies with the requirements of R309-545	Sig	25	R309-525-16(1)(b)(iii), R309-545
				Treatment - Conventional Treatment Laboratory: A laboratory is located on site to provide proper operations & maintenance of the plant	Sig	25	R309-525-17(1)
				Treatment - Conventional Laboratory: The plant provides finished drinking water, lavatory and toilet facilities	Min	15	R309-525-17(3)

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TI05	INHIBITOR ADD - PHOSPHATE TESTS NOT DONE	NON	0	Treatment - Iron (solubility) Sequestration by Polyphosphates: General Information, describe the process	Non	0	R309-535-11(5)
TQ06	SEQ - TOTAL PHOSPHATE APPLIED EXCEEDS 10 MG/L	MIN	2				
TQ08	SEQ - IMPROPER PHOSPHATE TEST EQUIPMENT	MIN	2				
				Treatment - Deionization (Non-Filter): General information, describe the process?	Non	0	R309-535-8
				Treatment - Lime-Soda Softening: General information, describe the process?	Non	0	R309-535-11(2)
TI05	INHIBITOR ADD - PHOSPHATE TESTS NOT DONE	REC	0				
TG20	DAILY RECORDS DO NOT REFLECT DOSAGES & TOTALS	SIG	2				
TG34	SW PLANT DOES NOT HAVE CONT RESIDUAL MONITOR	MIN	20				
INFO	ACTIVATED CARBON - SYSTEM STARTS ON DIRTY FILTERS	REC	0				
TC18	ACTIVATED CARBON - PLANT EQUIP VENTING INADEQUATE	REC	0				
INFO	CL2 CONTACT TIME IS INSUFFICIENT	NON	0				
				All chemicals used for fluoridation comply with ANSI/NSF Standard 60	Sig	25	R309-535-5(2)(a)(i)
TF06	FL CHEMICALS ARE NOT STORED SEPARATELY	MIN	2	Fluoride chemicals are stored in covered or sealed containers, inside a building, and away from direct sunlight and a source of heat.	Min	15	R309-535-5(2)(b)(i)
TF28	IMPROPER STORAGE OF CHEMICALS	MIN	10	Fluoride chemicals are properly stored away from incompatible chemicals	Sig	25	R309-535-5(2)(b)(ii)
TF36	CHEMICALS NOT STORED ON PALLETS	MIN	2	Bags or other containers for dry materials are stored on pallets and kept closed to keep out moisture and are disposed of in a manner which minimizes operators' exposure to fluoride dusts	Min	15	R309-535-5(2)(b)(iii)
TF41	INADEQUATE DISPOSAL OF BAGS, DRUMS OR BARRELS	MIN	10				
TF26	INADEQUATE SPILL CONTAINMENT PROVISIONS	MIN	2	There is acid resistant secondary containment provided and it is sized to contain maximum volume of solution handled	Sig	25	R309-535-5(2)(c)
TF14	FL NO SCALE PRESENT TO CALC QUANTITY USED	MIN	2	There is a means to measure the quantity of chemical used	Min	15	R309-535-5(2)(d)

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TF10	FL DILUTION LINE UNPROTECTED FROM BACKFLOW	SIG	10				
TF22	FLUORIDE PUMP NOT AUTOMATICLY STARTED WITH WELL OR SERVICE PUMP	MIN	30	The fluoride feed pump is only turned on when the well or service pump is on [i.e. the fluoride feed pump is not plugged into a continuously active ("hot") electrical outlet]	Sig	50	R309-535-5(2)(e)
				The fluoride injection line enters at the point in the lower one-third of the water line, and the end of the injection line is in the lower half of the water line	Min	5	R309-535-5(2)(g)(i)
TF08	FL MAKE UP WATER NOT TREATED FOR HARDNESS	MIN	2	The fluoride injection point point is located downstsream of lime softening, ion exchange, or other processes that affect the fluoride level	Min	5	R309-535-5(2)(g)(iii)
				The Fluoridation equipment is house in a secure building	Sig	25	R309-535-5(2)(h)(i)
TF24	CHEMICAL STORAGE ROOM LACKS VENT TO OUTSIDE	MIN	2	The fluoridation equipment is housed in a building that is lighted, heated, and ventilated (vented to outside atmosphere away from air intakes) to assure proper operation	Min	5	R309-535-5(2)(j)(i)& (iii)
				There are separate switches for fans and lights in the fluoride operating area located outside or near the entrance of the fluoride operating area and protected from vandalism	Min	5	R309-535-5(2)(j)(iv)
TF27	INADEQUATE CROSS-CONNECTION PROTECTION	SIG	10	Cross Connection: Cross connection control is provided by air gap or an approved properly operating backflow prevention assembly	Sig	50	R309-535-5(2)(k)
TF42	NO ADEQUATE FLOOR DRAIN	MIN	2				
TF29	VENTS DO NOT DISCHARGE OUTSIDE ABOVE GRADE	MIN	2	Fluorosilicic Acid: Solution bulk tank is vented to the outside, above grade, away from air intakes, where least susceptible to contamination; with a non-corrodible fine mesh #14 (or finer) screen placed over the vent discharge	Sig	25	R309-535-5(3)(b)(ii)& (iv)
TF31	STORAGE AND DAY TANKS DO NOT HAVE SEPARATE VENTS	MIN	2	Fluorosilicic Acid: If there is a risk of the bulk tank overflowing to the day tank; the bulk tank and day tank have separate vents	Sig	25	R309-535-5(3)(b)(iii)
				Fluorosilicic Acid facility constructed after January 1, 2017: There is a separate room provided for a fluoride operating area with a view window between the control room and the fluorosilicic acid operating area	Sig	25	R309-535-5(3)(c)
TF15	FL NO DELUGE SHOWERS OR EYEWASH AVAILABLE	MIN	10	Fluorosilicic Acid: Emergency eyewash stations and showers are provided (recommended the eye station be located where it can be used during an emergency, away from the fluoride leak)	Sig	25	R309-535-5(3)(d)

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INFO		REC	0	Fluorosilicic Acid: There is a neutralizing chemical available on site to handle small-quantity accidental acid spills	Min	15	R309-535-5(3)(e)
TF13	FL INSUFFICIENT OR IMPROPER SAFETY EQUIPMENT	MIN	10	Fluorosilicic Acid: Appropriate protective equipment is provided for Operators (full-face shield and splash-proof safety goggles, long gauntlet acid-resistant rubber or neoprene gloves with cuffs, acid-resistant rubber or neoprene aprons, and rubber boots)	Sig	25	R309-535-5(3)(f)
TF32	NO MEANS TO STOP TRANSFER PUMP	REC	0				
TF33	NO EMERGENCY SHUT OFF	REC	0				
TF34	NO PROVISIONS FOR FAILURE OF ACID BULK TANK	REC	0				
TF35	NO SEISMIC RESTRAIT FOR ACID BULK STORAGE TANK	REC	0				
TF19	SATURATORS NOT UP-FLOW TYPE	MIN	2				
TF43	NO FLOW MEASURING DEVICE ON INLET OR OUTLET OF SATURATOR	MIN	2	Fluoride Saturator: A water meter is installed on the make-up water line to determine the amount of fluoride solution being fed	Min	5	R309-535-5(4)(a)
TF12	FL NO FLOW METER ON LINE TO SATURATOR	MIN	2	Fluoride Saturator: The minimum depth of undissolved fluoride chemical, to maintain a saturated solution, is marked on the outside of the saturator tank	Min	5	R309-535-5(4)(b)
TF37	DISSOLUTION WATER NOT PROPERLY TREATED FOR HARDNESS	MIN	2	Fluoride Saturator make-up water hardness greater than 75 mg/L: The make up water is softened and a sediment filter (20 mesh) is installed in the make-up water line between the softener and the water meter.	Min	15	R309-535-5(4)(e)
				Fluoride Saturator: Emergency eyewash is provided	Sig	25	R309-535-5(4)(g)
				Fluoride Saturator: Personal protective equipment is available (NIOSH approved particulate respirator, chemical dust-resistant safety goggles, acid-resistant gloves, acid-resistant rubber or neoprene aprons, and rubber boots)	Sig	25	R309-535-5(4)(h)
				Fluoride Dry Feed Installations: A solution tank with a mechanical mixer is installed for volumetric and gravimetric dry feeders	Min	15	R309-535-5(5)(a&b)
TF39	NO EXHAUST FAN AND DUST FILTER FOR TRANSFER OF DRY CHEMICALS	MIN	10	Fluoride Dry Feed Installations: If a hopper is provided it is equipped with a dust filter and exhaust fan that places the hopper under negative pressure	Sig	25	R309-535-5(5)(c)(ii)

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TF40	IMPROPER DISCHARGE OF AIR FROM FLUORIDE HANDLING EQUIPMENT	MIN	10	Fluoride Dry Feed Installations: Air exhaust from the fluoride handling equipment is discharged through a dust filter to the atmosphere outside of the building	Min	15	R309-535-5(5)(c)(ii)
				Fluoride Dry Feed Installations: Emergency eyewash is provided	Sig	25	R309-535-5(5)(d)
				Fluoride Dry Feed Installations: Personal protective equipment is available (NIOSH approved particulate respirator, chemical dust-resistant safety goggles, acid-resistant gloves, acid-resistant rubber or neoprene aprons, and rubber boots)	Sig	25	R309-535-5(5)(e)
Pump Stations							
PS13	PS SHOWS EVIDENCE OF OR NOT PROTECTED FROM FLOODING	SIG	5	Building designed with interior floor a minimum of 6" above outside finished grade	Min	5	R309-540-5 (2)(a)(iii)
				Grading plan directs surface drainage away from pump station	Min	5	R309-540-5 (1)(a)(iv)
PS33	PUMP HOUSE NOT SECURE	SIG	5	Pump station designed to prevent vandalism and entry by animals and unauthorized persons	Min	15	R309-540-5 (1)(a)(v)
				Building floor designed with slope to a drain separate from wet wells holding drinking water	Sig	25	R309-540-5 (2)(a)(v)
PS18	PUMP STATION LACKS REDUNDANT PUMP UNIT	SIG	20	If the pump station is used to pressurize the distribution system, it is designed with a minimum of two pumping units demand	Sig	25	R309-540-5 (4)(b)
PS19	PUMP STATION LACKS CAPACITY TO MEET DEMAND	SIG	20				
PS03	PS - NO PRESSURE GAUGE ON DISCHARGE PIPING	MIN	1	Standard pressure gauge for the discharge line on each pump	Min	5	R309-540-5 (6)(c)(i)(ii)
				Electrical controls designed to be protected from flooding	Sig	25	R309-540-5 (6)(e)
PT14	HYDROPNEUMATIC TANK LACKS PROVISIONS FOR FLOOD PROTECTION	MIN	10	Hydropnuematic systems: Below-ground diaphragm/air tank chamber designed with adequate drainage and flood protection	Min	5	R309-540-6 (2)
				Hydropnuematic systems designed with a pressure gauge on pressure tank inlet line	Min	15	R309-540-6 (3)
PS15	UNPROTECTED CROSS CONN PRESENT IN PUMP STATION	SIG	20	Cross connections absent in pump station	Sig	50	R309-105-12(1)

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PS12	A/V RELEASE VALVE LACKS A DOWN-TURNED DISCHARGE	MIN	2	Pump Station air release valve discharge line down turned, covered with a #14 mesh screen and terminates at least 6 inches above the pump station floor	Sig	25	R309-515-6(12)(d)(v)
PS10	A/V RELEASE VALVE LACKS A PROPER SCREEN	SIG	2				
PS11	A/V RELEASE VALVE LACKS A PROPER AIRGAP	MIN	2				
PS32	ELECTRICAL ROTATING EQUIP LACKS PROTECTIVE GUARDS	MIN	2				
PS17	PS - PIPING OR APPURTENANCES LEAKING	REC	0				
Drinking Water Storage Tanks							
				Tank material provides stability, durability, and protects water quality	Sig	25	R309-545-6 (1)
				Tank located a Minimum of 50 lateral feet from sewers and contaMination sources	Sig	50	R309-545-7 (3)
V001	STORAGE FACILITY SITE NOT GRADED - PROPER DRAINAGE	MIN	5	Ground within 50 foot radius of tank graded to prevent standing water (ground-level & buried tanks)	Min	5	R309-545-7 (4)
				Tank capable of being isolated from distribution system	Min	5	R309-545-7 (5)
V020	STORAGE FACILITY SHOWS MILD DETERIORATION	REC	0	Tank roof has watertight roof and sidewalls that lacks evidence of mild deterioration or spalling which could penetrate through the tank if not addressed	Min	15	R309-545-9 (1)
V021	STORAGE FACILITY SHOWS MODERATE DETERIORATION	MIN	20				
V022	STORAGE FACILITY SHOWS EVIDENCE OF LEAKAGE	SIG	30	Tank roof has watertight roof and sidewalls that lacks evidence of siginificant deterioration that penetrates through the tank evidenced by leaking	Sig	50	R309-545-9 (1)
V023	STORAGE FACILITY IS LEAKING AT TIME OF INSPECTION	SIG	40				
V024	STORAGE FACILITY SHOWS EVIDENCE OF WATER INTRUSION	SIG	50				
V002	UNCOVERED FINISHED WATER STORAGE	SIG	150	All pipes and openings are properly welded, gasketed and sealed	Sig	50	R309-545-9 (2)(a)&(b)
V017	STORAGE FACILITY HAS UNSEALED ROOF PENETRATIONS	SIG	50				
				Minimum double wall separation provided between water and wastewater compartments	Sig	50	R309-545-9 (3)
V003	STORAGE FACILITY COVER NOT SLOPED FOR DRAINAGE	REC	0	Tank roof drainage designed to prevent water ponding	Min	5	R309-545-9 (4)

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				Tank designed with level control devices to maintain water levels	Min	5	R309-545-17
				Tank drain shall not discharge to a sanitary sewer	Sig	50	R309-545-10 (1)(c)
V016	DRAIN LINE DOES NOT HAVE ADEQUATE AIR GAP	MIN	5	If a drain line exists, the end of the drain line has a minimum of 12 inches of clearance	Sig	25	R309-545-10 (1)(d)
				Internal catwalks (if provided) designed with solid floors and raised edges	Sig	50	R309-545-10 (2)
VL01	STORAGE STRUCTURE MISSING A PROPER OVERFLOW	SIG	15	Tank overflow is present	Sig	50	R309-545-13
V011	STORAGE FACILITY OVERFLOW PIPE LACKS FREEFALL	MIN	5	Tank overflow discharges with a minimum of 12 inches of clearance	Min	15	R309-545-13
				Tank overflow designed to direct discharge away from tank and to prevent erosion	Min	15	R309-545-13
V012	STORAGE FACILITY OVERFLOW PIPE IMPROPER SCREEN	SIG	5	Overflow screened with non-corrodible #4 mesh screen	Sig	25	R309-545-13 (3)
V013	STORAGE FACILITY OVERFLOW CONNECTED TO SEWER	MIN	5	Overflow pipes not connected to, or discharge into, any sanitary sewer system	Sig	50	R309-545-13 (5)
VL03	STORAGE STRUCTURE MISSING A PROPER ACCESS HATCH	MIN	9	Tank designed with reasonable convenient access for cleaning and maintenance	Min	15	R309-545-14
				Tank designed with at least one roof access opening above the overflow level	Min	15	R309-545-14 (1)
V008	STORAGE ACCESS NOT A Min. OF 4 IN ABOVE SURFACE	MIN	3	Access openings framed a minimum of 4 inches above the roof surface or 18 inches above earthen cover	Min	15	R309-545-14 (1)
				Access frame sealed to prevent inflow of contaminants with no openings, cracks or penetrations on the horizontal surface of the lid	Sig	50	R309-545-14 (1) & (2)
V010	STORAGE FACILITY LACKS PROPER SHOEBOX ACCESS	MIN	3	Access openings secured with a shoebox type lid with at least a 2-inch overhang, gasket and lock	Sig	25	R309-545-14 (2)& (3)
V009	STORAGE FACILITY ACCESS LACKS PROPER GASKET	SIG	3				
V029	STORAGE FACILITY IS NOT SECURE	SIG	20				
VL02	STORAGE STRUCTURE MISSING A PROPER AIR VENT	SIG	6	Tank designed with vent	Sig	25	R309-545-15
				Vent capacity exceeds water inflow and water outflow	Sig	25	R309-545-15

Deficiency Code	(CURRENT) Database Description	(CURRENT) Deficiency Type	(CURRENT) IPS	*DRAFT Database Description*	(PROPOSED) Deficiency Type	(PROPOSED) IPS Points	Rule Reference
V007	STORAGE FACILITY VENT NOT PROPERLY SCREENED	SIG	2	Vents are downturned a minimum of 2 feet below any opening, screened with a #14 mesh screen and sealed	Sig	25	R309-545-15 (1)
V005	STORAGE FACILITY VENT NOT TURNED DOWN	MIN	2				
V006	STORAGE FACILITY VENT NOT 24-36 IN. ABOVE SURFACE	MIN	2	Vents have a minimum of 24 inches of clearance above earthen cover	Min	15	R309-545-15 (2)
				Vent located and sized to prevent blockage during winter	Sig	25	R309-545-15 (3)
V035	AIR VENT LACKS LARGER PTROTECTIVE SCREEN	REC	0	Vent 6-inches or greater in diameter designed with additional heavy gage screen to protect #14 mesh screen	Min	15	R309-545-15 (5)
V004	STORAGE FACILITY INADEQUATE LADDERS OR RAILINGS	MIN	2	Ladder greater than 20 feet long designed with appropriate safety features (cage, harness, platform, etc.)	Sig	25	R309-545-18 (2)
				Elevated tank designed with railings/handholds to access the tank	Sig	25	R309-545-18 (3)
V014	STORAGE FACILITY INTERIOR COATINGS DONT MEET ANSI/NSF 61	SIG	30	Specs require material for underwater recoating/repairing of tank interior to be certified to meet ANSI/NSF 60 & 61 standards	Sig	25	R309-545-21 (2)
Transmission and Distribution Pipelines							
D019	INADEQUATE DISTRIBUTION CAPACITY FOR FIREFLOW	MIN	5	All water mains (installed after 1995) that provide fire flow have a diameter of at least 8 inches	Min	5	R309-550-5(4) & (5)
				Design consideration for water mains near contamination areas	Sig	50	R309-550-5(11)
INFO		NON	0	Asbestos-Cement Pipe Absent	Non	0	R30-550-6(2)(a)
				Distribution piping is free of lead pipes/fittings	Min	15	R30-550-6(2)(b)
D001	SYSTEM USES UNAPPROVED PIPE, FITTINGS OR MATERIAL	SIG	30	NSF/ANSI 61 Certification for drinking water components	Sig	25	R309-550-6(1) & R309-550-6(3)
D004	AIR OR VACUUM RELEASE VALVES NOT PROPERLY SCREENED	SIG	10	End of air relief vent pipe is down turned, covered with a #14 mesh screen, provided with a shut-off valve to permit servicing and extends to at least 12 inches above grade where possible or at least one foot above water main pipe if the chamber has means for drainage such as drain to daylight, gravel-filled adsorption pit or a sump pump.	Sig	25	R309-550-6(6)(a, b & e)
D006	A/V RELEASE VALVE PIPING NOT EXTEND ABOVE GRADE	SIG	10				
D007	AIR OR VACUUM RELEASE VALVES SUBJECT TO FLOODING	SIG	30				
D008	AIR OR VACUUM RELEASE VALVES FLOODED AT INSPECTION	SIG	50				

Deficiency Code	(CURRENT) Database Description	(CURRENT) Deficiency Type	(CURRENT) IPS	*DRAFT Database Description*	(PROPOSED) Deficiency Type	(PROPOSED) IPS Points	Rule Reference
D013	DIST BLOW OFFS CONNECTED TO SEWER OR W/NO AIR GAPS	SIG	20	Cross Connection: Blow offs, air relief valves, and/or fire hydrant drains are not directly connected to a sewer and have adequate clearance if exit below flood level in a ditches or streams?	Sig	50	R309-550-6(5)(a) & R309-550-5(7)(b)
				Cross Connection:Water line and Sanitary Sewer separation requirements met	Sig	50	R309-550-7
D011	DIST LINE CROSS A SW BODY W/ INADEQUATE PROTECTION	SIG	50	If a section of pipeline crosses under any surface water body great than 15 feet in width it has been specially constructed with restrained joints; isolation valves at each side on both ends of the water crossing; and a means of taking samples on the upstream and downstream sides of the water crossing	Sig	50	R309-550-8(8)(b)
D012	REC - FIRE HYDRANT USE POLICY INADEQUATE	REC	0				
D018	DOES NOT USE AWWA DISINFECTION STANDARDS	SIG	10	Water Line Maintenance: All water mains or appurtences were disinfected in accordance with AWWA C651-05 or a method approved by the Director	Sig	25	R309-550-8(10)
D003	SYSTEM FAILS TO PROVIDE 20 PSI TO ALL CONNECTIONS	SIG	50	Minimum of 20 psi, for systems constructed after January 1, 2007, 20 psi during fire flow and fire demand experienced uring peak day demand, 30 psi during peak instantaneous demand, and 40 psi during peak day demand	Sig	50	R309-105-9 & R306-550-5
D010	INADEQUATE PRESSURE PROVIDED TO SYSTEM POST 2006	SIG	50				
				Cross Connection: There are no water line physical connections with a possible contamination source, including pressurized, sewer. Niether stream condensate nor cooling water from engine jackets or other heat exchange devises are connected to the drinking water supply	Sig	50	R309-550-9(1 & 3)
M011	WATER HAULING NOT ALLOWD IF OTHER OPTION AVAILABLE	SIG	150	If the system hauls water, the system received DDW approval to haul water (community water systems are prohibited from permanent water hauling)	Sig	200	R309-550-10(2)
M012	REC - WATER HAULING GUIDELINES MUST BE UTILIZED	SIG	50				
INFO		NON	0	Cross Connection: There are no individual service connected booster pumps	Sig	50	R309-550-11(3)

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Source Protection							
SP01	NO DESIGNATED CONTACT FOR SOURCE PROTECTION	MIN	5				
SP02	PER NOT UPGRADED TO FULL DWSP PLAN	SIG	30	PER for active sources upgraded to full DWSP plan within one year of plan approval	Sig	25	R309-600-13(6) & R309-605-9(3)
SP04	SYSTEM NOT CURRENT ON ALL DWSP UPDATES	MIN	10	All active sources have approved updates to DWSP plan	Min	5	R309-600-7(2)(e) & R309-605-7(c)(v)
SP06	NO PER FOR NEW ACTIVE SOURCE	SIG	150	All new sources have an approved PER	Sig	50	R309-600-13 & R309-605-9
SP07	SYSTEM HAS DISAPPROVED PLAN, UPDATE OR PER	SIG	20	All active sources have an approved DWSP plan	Sig	25	R309-600-7(2) & R309-605-7(1)(c)
SP08	OLD SOURCE LACKS A DWSP PLAN	SIG	30				
SP09	NO DWSP REVISION SUBMITTED AFTER REDEV OF SOURC	MIN	20	Revised DWSP plan submitted for redeveloped sources	Min	15	R309-600-7(2)(f) & R309-605-7(1)(c)(vi)
				DWSP plan implemented according to management strategies outlined in the plan	Sig	25	R309-600-7(2)(d) & R309-605-7(1)(c)(iv)